

## RIDLEY CREEK BASIN

## 01476480 RIDLEY CREEK AT MEDIA, PA

**LOCATION.**--Lat 39°54'58", long 75°24'13", Delaware County, Hydrologic Unit 02040202, on right bank 400 ft downstream from bridge on U.S. Highway 1 (Baltimore Pike) at Media.

**DRAINAGE AREA.**--30.5 mi<sup>2</sup>.

**PERIOD OF RECORD.**--October 1986 to September 1995, October 1995 to December 1996 (fragmentary), January 1997 to current year.

**REVISED RECORDS.**--WDR PA-94-1: 1987, 1991, 1992 adjusted monthly and yearly summaries.

**GAGE.**--Water-stage recorder and crest-stage gage. Elevation of gage is 110 ft above National Geodetic Vertical Datum of 1929, from topographic map.

**REMARKS.**--Records fair except those for estimated daily discharges, which are poor. Several measurements of water temperature were made during the year. Diversion during entire period of record by Philadelphia Suburban Water Company (formerly Media Water Company). Satellite telemetry at station.

**COOPERATION.**--Records of diversion provided by Philadelphia Suburban Water Company.

**PEAK DISCHARGES FOR CURRENT YEAR.**--Peak discharges greater than base discharge of 650 ft<sup>3</sup>/s and maximum (\*):

Date	Time	Discharge ft <sup>3</sup> /s	Gage Height (ft)	Date	Time	Discharge ft <sup>3</sup> /s	Gage Height (ft)
May 18	1330	*539	*5.12	(No peaks above base discharge.)			

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.7	7.4	8.5	e7.5	25	8.5	32	24	13	7.7	4.8	19
2	8.2	9.0	9.4	e7.3	20	9.6	21	36	11	6.8	4.5	24
3	6.4	9.7	9.0	e8.0	15	158	19	81	12	5.4	5.1	7.2
4	7.2	8.8	7.8	8.2	14	31	17	24	11	6.1	4.8	5.1
5	4.8	8.7	9.0	9.4	13	18	16	20	11	5.9	6.6	4.5
6	6.8	7.8	9.6	22	12	15	15	18	29	4.3	5.6	4.8
7	6.7	8.3	9.6	51	13	14	15	17	75	4.8	4.8	4.5
8	5.1	6.9	13	22	12	13	14	15	19	7.1	4.6	4.3
9	4.6	7.7	33	15	11	12	15	18	15	6.0	3.9	4.7
10	4.6	7.9	13	15	12	18	16	20	13	7.2	3.0	5.2
11	4.8	e8.3	12	50	14	13	14	15	13	6.7	2.0	5.5
12	3.8	7.5	11	32	12	12	16	17	11	4.5	2.8	5.9
13	6.0	7.3	11	17	11	16	17	71	11	4.9	3.6	4.8
14	6.7	8.5	14	14	10	17	16	46	36	5.7	2.2	5.8
15	11	8.9	19	13	10	14	23	22	26	7.5	1.5	5.1
16	7.7	8.7	11	13	11	13	16	19	17	5.8	1.6	6.4
17	5.2	8.2	9.7	13	10	14	14	17	13	4.5	0.57	5.6
18	5.0	8.3	27	13	9.8	46	13	231	18	5.6	1.2	4.8
19	5.1	8.2	16	13	9.4	29	15	55	19	6.7	1.6	4.1
20	6.8	8.5	11	15	10	124	19	31	13	23	2.2	4.6
21	6.3	8.9	9.5	13	14	65	15	25	12	6.5	3.3	6.5
22	5.1	9.1	8.9	13	12	30	21	21	12	5.2	3.2	4.9
23	6.1	10	8.8	14	11	21	17	19	10	6.1	3.6	5.1
24	5.6	11	27	73	9.5	19	13	17	8.9	6.7	6.9	5.1
25	6.1	21	16	47	9.4	17	15	16	8.8	4.5	11	4.5
26	5.7	38	12	21	9.5	19	17	15	7.3	6.0	4.7	9.7
27	5.1	12	11	17	9.4	85	13	21	9.5	6.5	3.4	63
28	8.4	9.5	10	15	8.8	31	71	18	33	5.8	3.8	43
29	6.9	8.5	e9.0	14	---	23	35	15	13	6.0	44	11
30	6.6	8.5	e8.2	14	---	20	21	14	8.9	4.3	14	5.7
31	7.4	---	e7.7	30	---	23	---	13	---	5.2	4.2	---
TOTAL	193.5	301.1	391.7	629.4	337.8	948.1	581	991	509.4	199.0	169.07	294.4
MEAN	6.24	10.0	12.6	20.3	12.1	30.6	19.4	32.0	17.0	6.42	5.45	9.81
MAX	11	38	33	73	25	158	71	231	75	23	44	63
MIN	3.8	6.9	7.7	7.3	8.8	8.5	13	13	7.3	4.3	0.57	4.1
(†)	4.3	4.4	4.1	4.1	4.5	4.6	4.5	4.2	4.4	3.4	1.3	2.2

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 2002, BY WATER YEAR (WY)

MEAN	19.8	31.8	39.1	50.4	47.9	71.0	52.7	45.6	34.1	30.8	22.2	30.5
MAX	49.3	62.4	84.0	82.7	74.3	164	108	87.8	68.7	89.6	46.3	147
(WY)	1990	1987	1987	1990	1988	1994	1993	1989	1989	1989	1989	1999
MIN	6.24	10.0	8.14	20.3	12.1	30.6	19.4	23.1	11.7	6.42	5.45	8.42
(WY)	2002	2002	1999	2002	2002	2002	2002	1999	1999	2002	2002	1998

† Diversion for municipal supply, equivalent in cubic feet per second.  
e Estimated.

## RIDLEY CREEK BASIN

01476480 RIDLEY CREEK AT MEDIA, PA--Continued

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1987 - 2002	
ANNUAL TOTAL	12396.7		5545.47			
ANNUAL MEAN	34.0		15.2		39.3	
HIGHEST ANNUAL MEAN					57.6	1994
LOWEST ANNUAL MEAN					15.2	2002
HIGHEST DAILY MEAN	463	Mar 30	231	May 18	2860	Sep 16 1999
LOWEST DAILY MEAN	3.8	Oct 12	0.57	Aug 17	0.57	Aug 17 2002
ANNUAL SEVEN-DAY MINIMUM	5.1	Oct 7	1.6	Aug 14	1.6	Aug 14 2002
MAXIMUM PEAK FLOW			539	May 18	<b>a</b> 8000	Sep 16 1999
MAXIMUM PEAK STAGE			5.12	May 18	<b>b</b> 15.10	Sep 16 1999
10 PERCENT EXCEEDS	64		26		71	
50 PERCENT EXCEEDS	24		11		26	
90 PERCENT EXCEEDS	6.8		4.8		9.4	

**a** From rating curve extended above 1,600 ft<sup>3</sup>/s on basis of slope-area measurement of peak flow.  
**b** From floodmark.

